



# STIC Search Report

EIC 2800

STIC Database Tracking Number: 146228

**TO:** Tarifur Chowdhury  
**Location:** JEF- 4A49  
**Art Unit:** 2871  
**Tuesday, March 01, 2005**

**Case Serial Number:** 10/771263

**From:** Darcy Bates  
**Location:** EIC 2800  
JEF- 4B68  
**Phone:** 571-272-2540

**darcy.bates@uspto.gov**

## Search Notes

**Re: 10/771,263 US 6,433,851**

**Attached are search results.**

**No U. S. litigation was found in searches of Lexis-Nexis and Questel-Orbit databases.**

**If more searching or explanation is needed, please let me know.**

**Thanks,  
Darcy Bates**

Day : Tuesday  
Date: 3/1/2005  
Time: 10:01:05

## PALM INTRANET

### Application Number Information

Application Number: **10/771263** Assignments

Filing or 371(c) Date: **02/04/2004**

Effective Date: **02/04/2004**

Application Received: **02/04/2004**

Patent Number:

Issue Date: **00/00/0000**

Date of Abandonment: **00/00/0000**

Attorney Docket Number: **829-620**

Status: **30 /DOCKETED NEW CASE - READY FOR EXAMINATION**

Confirmation Number: **1391**

Examiner Number: **74504 / CHOWDHURY, TARI**

Group Art Unit: **2871**

**IFW IMAGE**

Class/Subclass: **349/042.000**

Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO**

L&R Code: Secrecy Code:**1**

Third Level Review: **NO**

Secrecy Order: **NO**

Status Date: **12/10/2004**

Oral Hearing: **NO**

Title of Invention: **TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY HAVING A TRANSPARENT COLORLESS ORGANIC INTERLAYER INSULATING FILM BETWEEN PIXEL ELECTRODES AND SWITCHING**

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**PALM INTRANET****Continuity Information for 10/771263****Parent Data**10771263is a reissue of 09757477is a division of 09592857is a division of 09110134Which is a continuation of 08695632**Child Data**10915717 is a division of 10771263[Appn Info](#) [Contents](#) [Petition Info](#) [Atty/Agent Info](#) [Continuity Data](#) [Foreign Data](#) [Inventors](#) [Address](#) [Fees](#) [Post Info](#) [Pre Grant Pub](#)**Search Another:** Application#   or Patent#  PCT /  /   or PG PUBS #  Attorney Docket #  Bar Code #  

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## PALM INTRANET

### Application Number Information

Application Number: 09/757477 [Assignments](#)

Filing or 371(c) Date: 01/11/2001

Effective Date: 01/11/2001

Application Received: 01/11/2001

Pat. Num./Pub. Num: [6433851/20010002857](#)

Issue Date: 08/13/2002

Date of Abandonment: 00/00/0000

Attorney Docket Number: 829-572

Status: 150 /PATENTED CASE

Confirmation Number: 8776

Examiner Number: 74504 / [CHOWDHURY, TARI](#)

Group Art Unit: 2871

Class/Subclass: 349/042.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 07/25/2002

Oral Hearing: NO

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY HAVING A TRANSPARENT COLOR LESS ORGANIC INTERLAYER INSULATING FILM BETWEEN PIXEL ELECTRODES AND SWITCHING

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
09757477	28M1	02/02/2005	28E1	No Charge to Name	NGO,CHAU	JEF/00/C 05

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**PALM INTRANET****Continuity Information for 09/757477****Parent Data**

09757477  
is a division of 09592857  
is a division of 09110134  
Which is a continuation of 08695632

**Child Data**

10771263 is a reissue of 09757477  
10915717 is a division of 10771263

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## PALM INTRANET

### Application Number Information

Application Number: 09/592857 [Order This File](#) [Assignments](#) Examiner Number: 74504 / **CHOWDHURY, TARI**

Filing or 371(c) Date: 06/12/2000

Group Art Unit: 2871

Effective Date: 06/12/2000

Class/Subclass: 349/042.000

Application Received: 06/12/2000

Lost Case: NO

Patent Number: **6195138**

Interference Number:

Issue Date: 02/27/2001

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: 829-553

Third Level Review: NO

Secrecy Order: NO

Status: 150 /PATENTED CASE

Status Date: 02/09/2001

Confirmation Number: 4622

Oral Hearing: NO

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY HAVING AN ORGANIC INTERLAYER ELEMENTS FILM BETWEEN PIXEL ELECTRODES AND SWITCHING

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
09592857	9200	01/22/2004	No Charge to Location	No Charge to Name	ANYAMAH	

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**PALM INTRANET****Continuity Information for 09/592857****Parent Data**

09592857  
is a division of 08695632

**Child Data**

09757477 is a division of 09592857

10771263 is a reissue of 09757477

10915717 is a division of 10771263

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**PALM INTRANET**
**Application Number Information**

Application Number: 08/695632 [Order This File](#) [Assignments](#) Examiner Number: 74504 / **CHOWDHURY, TARI**

Filing or 371(c) Date: 08/12/1996

Group Art Unit: 2871

Effective Date: 08/12/1996

Class/Subclass: 349/038.000

Application Received: 08/12/1996

Lost Case: NO

Patent Number: **6052162**

Interference Number:

Issue Date: 04/18/2000

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: 829-327

Third Level Review: NO

Secrecy Order: NO

Status: 150 /**PATENTED CASE**

Status Date: 04/05/2000

Confirmation Number: 7513

Oral Hearing: NO

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY DEVICE WITH CONNECTING ELECTRODE AND PIXEL ELECTRODE CONNECTED VIA CONTACT HOLE THROUGH INNER-LAYER INSULATING FILM AND METHOD FOR FABRICATING

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08695632	9200	01/22/2004	No Charge to Location	No Charge to Name	KASAHEMMANUEL	

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**PALM INTRANET****Continuity Information for 08/695632****Parent Data****No Parent Data****Child Data**09110134 is a continuation of 0869563209110151 is a continuation of 0869563209592857 is a division of 0869563209757477 is a division of 0959285710771263 is a reissue of 0975747710915717 is a division of 10771263[Appn Info](#) [Contents](#) [Petition Info](#) [Atty/Agent Info](#) [Continuity Data](#) [Foreign Data](#) [Inventors](#) [Address](#) [Fees](#) [Post Info](#) [Pre Grant Pub](#)**Search Another:** Application#   or Patent#  PCT /  /   or PG PUBS #  Attorney Docket #  Bar Code #  

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**PALM INTRANET**
**Application Number Information**

Application Number: 09/110134 [Order This File](#) [Assignments](#) Examiner Number: 74504 / **CHOWDHURY, TARI**  
 Filing or 371(c) Date: 07/06/1998 Group Art Unit: 2871  
 Effective Date: 07/06/1998 Class/Subclass: 349/038.000  
 Application Received: 07/06/1998 Lost Case: NO  
 Patent Number: **6097452** Interference Number:  
 Issue Date: 08/01/2000 Unmatched Petition: NO  
 Date of Abandonment: 00/00/0000 L&R Code: Secrecy Code:1  
 Attorney Docket Number: 829-456 Third Level Review: NO Secrecy Order: NO  
 Status: **150 /PATENTED CASE** Status Date: 07/13/2000  
 Confirmation Number: 4328 Oral Hearing: NO  
 Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY HAVING AN ORGANIC INTERLAYER ELEMENTS FILM  
 BETWEEN PIXEL ELECTRODES AND SWITCHING

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09110134	9200	01/22/2004	No Charge to Location	No Charge to Name	KASAH,EMMANUEL	

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**PALM INTRANET****Continuity Information for 09/110134****Parent Data**09110134is a continuation of 08695632**Child Data**09757477 is a division of 0959285710771263 is a reissue of 0975747710915717 is a division of 10771263[Appn Info](#) [Contents](#) [Petition Info](#) [Atty/Agent Info](#) [Continuity Data](#) [Foreign Data](#) [Inventors](#) [Address](#) [Fees](#) [Post Info](#) [Pre Grant Pub](#)

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Time: 10:02:02

**PALM INTRANET****Application Number Information**Application Number: 10/915717 Assignments

Examiner Number: 00000 /

Filing or 371(c) Date: 08/11/2004

Group Art Unit: 2871

**IFW IMAGE**

Effective Date: 08/11/2004

Class/Subclass: 349/ .

Application Received: 08/11/2004

Lost Case: NO

Patent Number:

Interference Number:

Issue Date: 00/00/0000

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: 829-626

Third Level Review: NO

Secrecy Order: NO

Status: 19 /APPLICATION UNDERGOING PREEEXAM PROCESSING

Status Date: 08/16/2004

Confirmation Number: 7473

Oral Hearing: NO

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY HAVING A TRANSPARENT COLORLESS ORGANIC INTERLAYER INSULATING FILM BETWEEN PIXEL ELECTRODES AND SWITCHING

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**PALM INTRANET****Continuity Information for 10/915717****Parent Data**

10915717

is a division of 10771263

Which is a reissue of 09757477

is a division of 09592857

is a division of 09110134

Which is a continuation of 08695632

**Child Data**

No Child Data

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## PALM INTRANET

### Application Number Information

Application Number: 09/110151 [Order This File](#) [Assignments](#) Examiner Number: 74504 / **CHOWDHURY, TARI**

Filing or 371(c) Date: 07/06/1998

Group Art Unit: 2871

Effective Date: 07/06/1998

Class/Subclass: 349/038.000

Application Received: 07/06/1998

Lost Case: NO

Patent Number: **5953084**

Interference Number:

Issue Date: 09/14/1999

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: 829-457

Third Level Review: NO

Secrecy Order: NO

Status: 150 /PATENTED CASE

Status Date: 09/03/1999

Confirmation Number: 4350

Oral Hearing: NO

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY DEVICE AND METHOD FOR FABRICATION THE SAME

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
09110151	9200	10/20/2003	No Charge to Location	No Charge to Name	MASSILLON,NICHOLAS	

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**PALM INTRANET****Continuity Information for 09/110151****Parent Data**09110151is a continuation of 08695632**Child Data**

No Child Data

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## Litigation involving patent 6,433,851

Click on the docket number to view the docket.  
Click on the above patent number to view the patent.

 Docket  Case Heading  Date Filed  Date Retrvd

**There are no cases involving this patent number.**

## Litigation involving patent 5,953,084

Click on the docket number to view the docket.  
Click on the above patent number to view the patent.

 Docket  Case Heading  Date Filed  Date Retrvd

There are no cases involving this patent number.

## Litigation involving patent 6,097,452

Click on the docket number to view the docket.  
Click on the above patent number to view the patent.

 Docket  Case Heading  Date Filed   Date Retrvd 

**There are no cases involving this patent number.**

## Litigation involving patent 6,052,162

Click on the docket number to view the docket.  
Click on the above patent number to view the patent.

 Docket  Case Heading  Date Filed  Date Retrvd

**There are no cases involving this patent number.**

## Litigation involving patent 6,195,138

Click on the docket number to view the docket.  
Click on the above patent number to view the patent.

 Docket  Case Heading  Date Filed  Date Retrvd

**There are no cases involving this patent number.**

## Litigation involving patent 20010002857

Click on the docket number to view the docket.  
Click on the above patent number to view the patent.

Docket  Case Heading  Date Filed  Date Retrvd

There are no cases involving this patent number.

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents](#) [\[i\]](#)  
Terms: [patno=6433851](#) ([Edit Search](#))

757477 (09) 6433851 August 13, 2002

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**6433851**

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August 13, 2002

Transmission type liquid crystal display having a transparent colorless organic interlayer insulating film between pixel electrodes and switching

**REISSUE:** February 4, 2004 - Reissue Application filed Ex. Gp.: 2871; Re. S.N. 10/771,263 (O.G. September 28, 2004)

**INVENTOR:** Shimada, Takayuki - Yamatokoriyama, Japan (JP); Kajitani, Masaru - Osaka, Japan (JP); Okamoto, Masaya - Soraku-gun, Japan (JP); Kondo, Naofumi - Ikoma, Japan (JP); Katayama, Mikio - Ikoma, Japan (JP); Sakuhana, Yoshikazu - Yamatokoriyama, Japan (JP); Yamamoto, Akihiro - Tenri, Japan (JP); Nakata, Yukinobu - Tenri, Japan (JP); Nishiki, Hirohiko - Tenri, Japan (JP)

**CERT-CORRECTION:** December 17, 2002 - a Certificate of Correction was issued for this patent (O.G. January 7, 2003)

**APPL-NO:** 757477 (09)

**FILED-DATE:** January 11, 2001

**GRANTED-DATE:** August 13, 2002

**PRIORITY:** August 11, 1995 - 7206367, Japan (JP); September 29, 1995 - 7254043, Japan (JP)

**ASSIGNEE-AT-ISSUE:** Sharp Kabushiki Kaisha, Osaka, Japan (JP), 03

**LEGAL-REP:** Nixon & Vanderhye P.C.

**PUB-TYPE:** August 13, 2002 - Utility Patent having no previously published pre-grant publication (B1)

**PUB-COUNTRY:** United States (US)

**REL-DATA:**

Continuation of Ser. No. 08/695632, August 12, 1996, GRANTED PATENT 6052162, Utility Patent having no previously published pre-grant publication (A)


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### \*Search Connectors

Use connectors to show relationships between search terms. (Hover over a connector for description. Click a connector to add to search.)

#### Syntax Definition

<u>and</u>	and
<u>or</u>	or
<u>w/N</u>	within N words
<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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Search statement 1

Query/Command : us6433851/pn

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Search statement 8

Query/Command : prt fu legalall max

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image  
**PN** - US2001002857 A1 20010607 [US20010002857]  
**PN2** - US6433851 B2 20020813 [US6433851]  
**TI** - (A1) Transmission type liquid crystal display having an organic interlayer elements film between pixel electrodes and switching  
**PA** - (B2) SHARP KK (JP)  
**PA0** - Sharp Kabushiki Kaisha, Osaka [JP]  
**PA2** - (B2) SHARP KK (JP)  
**IN** - (A1) KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)  
**AP** - US75747701 20010111 [2001US-0757477]  
**FD** - Division of: US6195138  
Division of: US6097452  
Continuation of: US6052162  
**PR** - US75747701 20010111 [2001US-0757477]  
JP20636795 19950811 [1995JP-0206367]  
JP25404395 19950929 [1995JP-0254043]  
US59285700 20000612 [2000US-0592857]  
US11013498 19980706 [1998US-0110134]  
US69563296 19960812 [1996US-0695632]  
**IC** - (A1) G02F-001/1343 G02F-001/136  
**EC** - G02F-001/1362C  
G02F-001/1362H  
**ICO** - S02F-001/1333I  
**PCL** - ORIGINAL (O) : 349138000; CROSS-REFERENCE (X) : 349042000  
**DT** - Corresponding document  
**CT** - US3602782; US4688896; US4759610; US4857907; US4923948; US5003356; US5032883; US5166085; US5182661; US5246782; US5314783; US5335102; US5378585; US5463481; US5483082; US5500750; US5517342; US5526014; US5585951; US5589314; US5594571; US5641974; US5658697; US5675159; US5679596; US5682211; US5688366; US5688410; US5695906; US5805250; US5822027; US5831708; US5859683; US5870157; US5877830; US5946065; US6052162; US6188458; US6204907; EP0117957; EP0611812; EP0632229; JP58-184929; JP61-156025; JP62-135810; JP1-35351; JP2-190826; JP3-2826; JP4-307521; JP4-74714; JP05-210113; JP06-208137; JP6-230422; JP7-36043; JP7-122719  
Patent Abstracts of Japan, vol. 016, No. 218, May 21, 1992 &  
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Large-Area Display to Mass Production Panel of TFT Starts",  
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Patent Abstracts of Japan, vol. 018, No. 532 (P-1810), Oct. 7, 1994 & JP-A-06 186580 (Seiko Epson Corp.), Jul. 8, 1994.

**STG -** (A1) Utility Patent Application published on or after January 2, 2001

**STG2-** (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001

**AB -** The transmission type liquid crystal display device of this invention includes: gate lines; source lines; and switching elements each arranged near a crossing of each gate line and each source line, a gate electrode of each switching element being connected to the gate line, a source electrode of the switching element being connected to the source line, and a drain electrode of the switching element being connected to a pixel electrode for applying a voltage to a liquid crystal layer, wherein an interlayer insulating film formed of an, organic film with high transparency is provided above the switching element, the gate line, and the source line, and wherein the pixel electrode formed of a transparent conductive film is provided on the interlayer insulating film.

**UP -** 2001-24

**1 / 1** LGST - ©EPO  
**PN -** US2001002857 A1 20010607 [US20010002857]

US6433851 B2 20020813 [US6433851]

**AP -** US75747701 20010111 [2001US-0757477]

**ACT -** 20021217 US/CC-A

CERTIFICATE OF CORRECTION

20040928 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040204

**UP -** 2004-41

**1 / 1** CRXX - ©CLAIMS/RRX

**AN -** 3733483

**PN -** 6,433,851 A 20020813 [US6433851]

**PA -** Sharp K K JP

**PT -** E (Electrical)

**ACT -** 20040204 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040928

REISSUE REQUEST NUMBER: 10/771263  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2871

Reissue Patent Number:

UP - 2003-02  
UACT- 2004-09-28

Search statement 8

**Query/Command : fam us6433851/pn**

1 Patent Groups  
**\*\* SS 8: Results 18**

Search statement 9

**Query/Command : famstate nonstop**

1 / 18 PLUSPAT - ©QUESTEL-ORBIT  
PN - CN1172962 A 19980211 [CN1172962]  
STG - (A) Unexamined application  
TI - (A) Transmission type liquid crystal display device and method for  
fabricating the same  
PA - (A) SHARP KK (JP)  
IN - (A) MASARU KAJITANI (JP); MASAYA OKAMOTO (JP); NAOYUKI SHIMADA (JP)  
IC - (A) G02F-001/136 G09F-009/35  
PN2 - CN1101555 C 20030212 [CN1101555C]  
STG2- (C) Granted patent  
TI2 - (C) Transmission type liquid crystal display device and method for  
manufacturing the same  
PA2 - (C) SHARP KK (JP)  
IN2 - (C) MASARU KAJITANI (JP); MASAYA OKAMOTO (JP); NAOGUKI SHIMADA (JP)  
IC2 - (C) G02F-001/1368 G09F-009/35  
AP - CN96111648 19960812 [1996CN-0111648]  
PR - JP20636795 19950811 [1995JP-0206367]  
JP25404395 19950929 [1995JP-0254043]

2 / 18 PLUSPAT - ©QUESTEL-ORBIT  
PN - DE69625969 D1 20030306 [DE69625969]  
STG - (D1) Granted EP number in bulletin  
OTI - (D1) Transmissive Flüssigkristall-Anzeigevorrichtung und  
Herstellungsverfahren  
PA - (D1) SHARP KK (JP)  
IN - (D1) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU  
(JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO  
MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP);  
SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)

**IC** - (D1) G02F-001/136  
**PN2** - DE69625969 T2 20031002 [DE69625969]  
**STG2-** (T2) Trans. Of EP patent  
**OTI2-** (T2) Transmissive Flüssigkristall-Anzeigevorrichtung und Herstellungsverfahren  
**PA2** - (T2) SHARP KK (JP)  
**IN2** - (T2) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)  
**IC2** - (T2) G02F-001/136  
**AP** - DE69625969 19960812 [1996DE-6025969]  
**PR** - JP20636795 19950811 [1995JP-0206367]  
**JP25404395** 19950929 [1995JP-0254043]  
**UP** - 2003-10

1 / 1 *LEGALI - ©EPO*  
**PN** - DE69625969 D1 20030306 [DE69625969] DE69625969 T2 20031002 [DE69625969]  
**AP** - DE69625969 19960812 [1996DE-6025969]  
**ACTE-** 20040226 DE/8364-A [+] NO OPPOSITION DURING TERM OF OPPOSITION  
**UP** - 2004-09

3 / 18 *PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - EP0762184 A1 19970312 [EP-762184]  
**STG** - (A1) Public. Of applic. With search report  
**TI** - (A1) Transmission type liquid crystal display device and method for fabricating the same  
**OTI** - (A1) Transmissive Flüssigkristall-Anzeigevorrichtung und Herstellungsverfahren  
(A1) Dispositif d'affichage à cristal liquide fonctionnant par transmission et procédé de fabrication  
**PA** - (A1) SHARP KK (JP)  
**IN** - (A1) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)  
**IC** - (A1) G02F-001/136  
**PN2** - EP0762184 B1 20030129 [EP-762184]  
**STG2-** (B1) Patent  
**TI2** - (B1) Transmission type liquid crystal display device and method for fabricating the same  
**OTI2-** (B1) Transmissive Flüssigkristall-Anzeigevorrichtung und Herstellungsverfahren  
(B1) Dispositif d'affichage à cristal liquide fonctionnant par transmission et procédé de fabrication  
**PA2** - (B1) SHARP KK (JP)  
**IN2** - (B1) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)  
**IC2** - (B1) G02F-001/136  
**LA** - ENGLISH (ENG)  
**AP** - EP96305889 19960812 [1996EP-0305889]  
**PR** - JP20636795 19950811 [1995JP-0206367]  
**JP25404395** 19950929 [1995JP-0254043]  
**EC** - G02F-001/1362H  
**ICO** - S02F-001/1362H

**DS** - DE FR GB NL  
**DT** - Basic

**I / 1** *LEGALI - @EPO*  
**PN** - EP0762184 A1 19970312 [EP-762184]EP0762184 B1 20030129 [EP-762184]  
**AP** - EP96305889 19960812 [1996EP-0305889]  
**ACTE-** 19970312 EP/AK-A [+]  
 DESIGNATED CONTRACTING STATES:  
 DE FR GB NL  
 19971008 EP/17P-A [+]  
 REQUEST FOR EXAMINATION FILED  
 EFFECTIVE DATE: 19970808  
 19990203 EP/17Q-A [+]  
 FIRST EXAMINATION REPORT  
 EFFECTIVE DATE: 19981218  
 20030129 EP/AK-A [+]  
 DESIGNATED CONTRACTING STATES:  
 DE FR GB NL  
 20030129 EP/REG-A; GB/FG4D [+]  
 GB: EUROPEAN PATENT GRANTED  
 <GB>  
 20030306 EP/REF-A  
 CORRESPONDS TO:  
 (DE 69625969 20030306 [DE69625969])  
 20030919 EP/ET-A [+]  
 FR: TRANSLATION FILED  
 20040121 EP/26N-A [+]  
 NO OPPOSITION FILED  
 EFFECTIVE DATE: 20031030  
**UP** - 2004-04

**4 / 18** *PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - EP1321797 A2 20030625 [EP1321797]  
**STG** - (A2) Pub. Of applic. Without search report  
**TI** - (A2) Transmission type liquid crystal display device and method  
 for fabricating the same  
**OTI** - (A2) Transmissive Flüssigkristall-Anzeigevorrichtung und  
 Herstellungsverfahren  
 (A2) Dispositif d'affichage à cristal liquide fonctionnant par  
 transmission et procédé de fabrication  
**PA** - (A2) SHARP KK (JP)  
**PA0** - SHARP KABUSHIKI KAISHA; 22-22, Nagaike-cho, Abeno-ku; Osaka 545 (JP)  
**IN** - (A2) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU  
 (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO  
 MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP);  
 SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)  
**IC** - (A2) G02F-001/1362  
**PN2** - EP1321797 A3 20040721 [EP1321797]  
**STG2-** (A3) Publi. Of search report  
**TI2** - (A3) Transmission type liquid crystal display device and method  
 for fabricating the same  
**OTI2-** (A3) Transmissive Flüssigkristall-Anzeigevorrichtung und

## Herstellungsverfahren

(A3) Dispositif d'affichage à cristal liquide fonctionnant par transmission et procédé de fabrication  
**PA2** - (A3) SHARP KK (JP)  
**IN2** - (A3) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO (JP); NAKADA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)  
**IC2** - (A3) G02F-001/1362  
**LA** - ENGLISH (ENG)  
**AP** - EP02017257 19960812 [2002EP-0017257]  
**PR** - EP96305889 19960812 [1996EP-0305889]  
          JP20636795 19950811 [1995JP-0206367]  
          JP25404395 19950929 [1995JP-0254043]  
**EC** - G02F-001/1362H  
**ICO** - S02F-001/1333I  
**DS** - DE FR GB NL  
**DT** - Corresponding document  
**UP** - 2003-26

1 / 1 *LEGALI - ©EPO*  
**PN** - EP1321797 A2 20030625 [EP1321797]  
**AP** - EP02017257 19960812 [2002EP-0017257]  
**ACTE** - 20030625 EP/AC-A  
          DIVISIONAL APPLICATION (ART. 76) OF:  
          (EP 0762184 [EP-762184])  
  
20030625 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
DE FR GB NL  
  
20040721 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
DE FR GB NL  
**UP** - 2004-30

5 / 18 *PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - JP2001290172 A 20011019 [JP2001290172]  
**STG** - (A) Doc. Laid open to publ. Inspec.  
**TI** - (A) LIQUID CRYSTAL DISPLAY DEVICE  
**PA** - (A) SHARP KK  
**PA0** - (A) SHARP CORP  
**IN** - (A) SHIMADA YOSHIHIRO; KONDO NAOFUMI; KAJITANI MASARU; KATAYAMA MIKIO; NAKADA YUKINOBU; OKAMOTO MASAYA; SHIMADA NAOYUKI; NISHIKI HIROHIKO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO  
**IC** - (A) G02F-001/1343 G02F-001/1368 G09F-009/30  
**AP** - JP2001044409 20010221 [2001JP-0044409]  
**PR** - JP2001044409 20010221 [2001JP-0044409]  
          JP20636795 19950811 [1995JP-0206367]  
          JP25404395 19950929 [1995JP-0254043]  
**UP** - 2001-48

6 / 18 *PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - JP2001296558 A 20011026 [JP2001296558]  
**STG** - (A) Doc. Laid open to publ. Inspec.  
**TI** - (A) LIQUID CRYSTAL DISPLAY DEVICE  
**PA** - (A) SHARP KK

**PA0** - (A) SHARP CORP  
**IN** - (A) SHIMADA YOSHIHIRO; KONDO NAOFUMI; KAJITANI MASARU; KATAYAMA MIKIO; NAKADA YUKINOBU; OKAMOTO MASAYA; SHIMADA NAOYUKI; NISHIKI HIROHIKO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO  
**IC** - (A) G02F-001/1368 G09F-009/30 H01L-029/786  
**PN2** - JP3541014 B2 20040707 [JP3541014]  
**STG2-** (B2) Grant. Pat. With A from 2500000 on  
**IC2** - (B2) G02F-001/1368 G09F-009/30 H01L-029/786  
**AP** - JP2001044410 20010221 [2001JP-0044410]  
**PR** - JP2001044410 20010221 [2001JP-0044410]  
   JP20636795 19950811 [1995JP-0206367]  
   JP25404395 19950929 [1995JP-0254043]  
**UP** - 2001-48

7 / 18 *PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - JP2001296559 A 20011026 [JP2001296559]  
**STG** - (A) Doc. Laid open to publ. Inspec.  
**TI** - (A) LIQUID CRYSTAL DISPLAY DEVICE, AND ACTIVE MATRIX SUBSTRATE  
**PA** - (A) SHARP KK  
**PA0** - (A) SHARP CORP  
**IN** - (A) SHIMADA YOSHIHIRO; KONDO NAOFUMI; KAJITANI MASARU; KATAYAMA MIKIO; NAKADA YUKINOBU; OKAMOTO MASAYA; SHIMADA NAOYUKI; NISHIKI HIROHIKO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO  
**IC** - (A) G02F-001/1368 H01L-021/312 H01L-029/786  
**AP** - JP2001047716 20010223 [2001JP-0047716]  
**PR** - JP2001047716 20010223 [2001JP-0047716]  
   JP20636795 19950811 [1995JP-0206367]  
   JP25404395 19950929 [1995JP-0254043]  
**UP** - 2001-48

8 / 18 *PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - JP2002189232 A 20020705 [JP2002189232]  
**STG** - (A) Doc. Laid open to publ. Inspec.  
**TI** - (A) LIQUID CRYSTAL DISPLAY DEVICE, AND ACTIVE MATRIX SUBSTRATE  
**PA** - (A) SHARP KK  
**IN** - (A) SHIMADA YOSHIHIRO; KONDO NAOFUMI; KAJITANI MASARU; KATAYAMA MIKIO; NAKADA YUKINOBU; OKAMOTO MASAYA; SHIMADA NAOYUKI; NISHIKI HIROHIKO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO  
**IC** - (A) G02F-001/1333 G02F-001/1368 G09F-009/30 G09F-009/35  
   H01L-021/28 H01L-021/312 H01L-029/786  
**PN2** - JP3541026 B2 20040707 [JP3541026]  
**STG2-** (B2) Grant. Pat. With A from 2500000 on  
**IC2** - (B2) G02F-001/1368 G09F-009/30 H01L-029/786  
**AP** - JP2001273366 20010910 [2001JP-0273366]  
**PR** - JP2001273366 20010910 [2001JP-0273366]  
   JP20636795 19950811 [1995JP-0206367]  
   JP25404395 19950929 [1995JP-0254043]  
**UP** - 2002-33

9 / 18 *PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - JP9152625 A 19970610 [JP09152625]  
**STG** - (A) Doc. Laid open to publ. Inspec.  
**TI** - (A) TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY DEVICE AND ITS PRODUCTION  
**PA** - (A) SHARP KK  
**PA0** - (A) SHARP CORP  
**IN** - (A) SHIMADA NAOYUKI; KAJITANI MASARU; OKAMOTO MASAYA; KONDO

NAOFUMI; KATAYAMA MIKIO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO;  
 NAKADA YUKINOBU; NISHIKI HIROHIKO; SHIMADA YOSHIHIRO  
**IC** - (A) G02F-001/136  
**PN2** - JP2933879 B2 19990816 [JP2933879]  
**STG2** - (B2) Grant. Pat. With A from 2500000 on  
**IC2** - (B2) G02F-001/136  
**AP** - JP21177996 19960809 [1996JP-0211779]  
**PR** - JP20636795 19950811 [1995JP-0206367]  
 JP21177996 19960809 [1996JP-0211779]  
 JP25404395 19950929 [1995JP-0254043]

*10 / 18 PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - JP11119261 A 19990430 [JP11119261]  
**STG** - (A) Doc. Laid open to publ. Inspec.  
**TI** - (A) LIQUID CRYSTAL DISPLAY DEVICE, ACTIVE MATRIX SUBSTRATE, AND  
 PRODUCTION OF LIQUID CRYSTAL DISPLAY DEVICE  
**PA** - (A) SHARP KK  
**PA0** - (A) SHARP CORP  
**IN** - (A) SHIMADA NAOYUKI; KAJITANI MASARU; OKAMOTO MASAYA; KONDO  
 NAOFUMI; KATAYAMA MIKIO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO;  
 NAKADA YUKINOBU; NISHIKI HIROHIKO; SHIMADA YOSHIHIRO  
**IC** - (A) G02F-001/1333 G02F-001/136 G09F-009/30 H01L-029/786  
**AP** - JP22021998 19980101 [1998JP-0220219]  
**PR** - JP20636795 19950811 [1995JP-0206367]  
 JP25404395 19950929 [1995JP-0254043]

*11 / 18 PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - JP11119262 A 19990430 [JP11119262]  
**STG** - (A) Doc. Laid open to publ. Inspec.  
**TI** - (A) LIQUID CRYSTAL DISPLAY DEVICE AND ACTIVE MATRIX SUBSTRATE  
**PA** - (A) SHARP KK  
**PA0** - (A) SHARP CORP  
**IN** - (A) SHIMADA YOSHIHIRO; KONDO NAOFUMI; KAJITANI MASARU; KATAYAMA  
 MIKIO; NAKADA YUKINOBU; OKAMOTO MASAYA; SHIMADA NAOYUKI; NISHIKI  
 HIROHIKO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO  
**IC** - (A) G02F-001/133 G02F-001/136 G09F-009/30 H01L-029/786  
**PN2** - JP3253589 B2 20020204 [JP3253589]  
**STG2** - (B2) Grant. Pat. With A from 2500000 on  
**IC2** - (B2) G02F-001/133 G02F-001/1368 G09F-009/30 H01L-029/786  
**AP** - JP22022098 19960908 [1998JP-0220220]  
**PR** - JP22022098 19960908 [1998JP-0220220]  
 JP20636795 19950811 [1995JP-0206367]  
 JP25404395 19950929 [1995JP-0254043]

*12 / 18 PLUSPAT - ©QUESTEL-ORBIT*  
**PN** - KR269017 B1 20001016 [KR-269017]  
**STG** - (B1) Examined pat. App. (2nd pub.) B5  
**TI** - (B1) LIQUIDCRYSTALDISPLAYDEVICEANDACTIVEMATRIXSUBSTRATE  
**PA** - (B1) SHARP KK (JP)  
**IN** - (B1) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU  
 (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO  
 MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP);  
 SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)  
**IC** - (B1) G02F-001/136  
**AP** - KR2000006651 20000212 [2000KR-0006651]  
**PR** - KR2000006651 20000212 [2000KR-0006651]  
 JP20636795 19950811 [1995JP-0206367]

JP25404395 19950929 [1995JP-0254043]  
 KR9633506 19960810 [1996KR-0033506]  
**UP** - 2001-28

13 / 18 *PLUSPAT - ©QUESTEL-ORBIT*  
**PN** - TW466373 B 20011201 [TW-466373]  
**STG** - (B) Patent  
**TI** - (B) Transmission type liquid crystal display device and method for  
 fabricating the same  
**PA** - (B) SHARP KK (JP)  
**IN** - (B) KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO  
 (JP); OKAMOTO MASAYA (JP); SHIMADA NAOYUKI (JP)  
**IC** - (B) G02F-001/1343  
**AP** - TW86109346 19970702 [1997TW-0109346]  
**PR** - JP21177996 19960809 [1996JP-0211779]  
**UP** - 2002-28

1 / 1 *LEGALI - ©EPO*  
**PN** - TW466373 B 20011201 [TW-466373]  
**AP** - TW86109346 19970702 [1997TW-0109346]  
**ACTE** - 20020322 TW/GD4A-A [+]  
 ISSUE OF PATENT CERTIFICATE FOR GRANTED INVENTION PATENT  
**UP** - 2004-28

14 / 18 *PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - US6097452 A 20000801 [US6097452]  
**STG** - (A) United States patent  
**TI** - (A) Transmission type liquid crystal display having an organic  
 interlayer elements film between pixel electrodes and switching  
**PA** - (A) SHARP KK (JP)  
**PA0** - Sharp Kabushiki Kaishi, Osaka [JP]  
**IN** - (A) SHIMADA TAKAYUKI (JP); KAJITANI MASARU (JP); OKAMOTO MASAYA  
 (JP); KONDO NAOFUMI (JP); KATAYAMA MIKIO (JP); SAKUHANA  
 YOSHIKAZU (JP); YAMAMOTO AKIHIRO (JP); NAKATA YUKINOBU (JP);  
 NISHIKI HIROHIKO (JP); SHIMADA YOSHINORI (JP)  
**IC** - (A) G02F-001/1333 G02F-001/1343 G02F-001/136  
**AP** - US11013498 19980706 [1998US-0110134]  
**PR** - US11013498 19980706 [1998US-0110134]  
 JP20636795 19950811 [1995JP-0206367]  
 JP25404395 19950929 [1995JP-0254043]  
 US69563296 19960812 [1996US-0695632]  
**EC** - G02F-001/1362C  
 G02F-001/1362H  
**ICO** - S02F-001/1333I  
**PCL** - ORIGINAL (O) : 349038000; CROSS-REFERENCE (X) : 349039000  
 349043000 349138000  
**DT** - Corresponding document  
**UP** - 2000-31

15 / 18 *PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - US5953084 A 19990914 [US5953084]  
**STG** - (A) United States patent  
**TI** - (A) Transmission type liquid crystal display device having  
 capacitance ratio of 10% or less and charging rate difference of  
 0.6% or less

**PA** - (A) SHARP KK (JP)  
**PA0** - Sharp Kabushiki Kaisha, Osaka [JP]  
**IN** - (A) SHIMADA TAKAYUKI (JP); KAJITANI MASARU (JP); OKAMOTO MASAYA (JP); KONDO NAOFUMI (JP); KATAYAMA MIKIO (JP); SAKUHANA YOSHIKAZU (JP); YAMAMOTO AKIHIRO (JP); NAKATA YUKINOBU (JP); NISHIKI HIROHIKO (JP); SHIMADA YOSHINORI (JP)  
**IC** - (A) G02F-001/1343 G02F-001/136  
**AP** - US11015198 19980706 [1998US-0110151]  
**PR** - US11015198 19980706 [1998US-0110151]  
 JP20636795 19950811 [1995JP-0206367]  
 JP25404395 19950929 [1995JP-0254043]  
 US69563296 19960812 [1996US-0695632]  
**EC** - G02F-001/1362C  
**PCL** - ORIGINAL (O) : 349038000; CROSS-REFERENCE (X) : 349039000  
 349042000  
**DT** - Basic

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**PN** - US6195138 B1 20010227 [US6195138]  
**STG** - (B1) U.S. Patent (no pre-grant pub.) after jan. 2, 2001  
**TI** - (B1) Transmission type liquid crystal display having an organic interlayer elements film between pixel electrodes and switching  
**PA** - (B1) SHARP KK (US)  
**PA0** - Sharp Kabushiki Kaisha, Osaka [JP]  
**IN** - (B1) KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)  
**IC** - (B1) G02F-001/13 G02F-001/1333 G02F-001/136 G09F-003/36  
**AP** - US59285700 20000612 [2000US-0592857]  
**PR** - US59285700 20000612 [2000US-0592857]  
 JP20636795 19950811 [1995JP-0206367]  
 JP25404395 19950929 [1995JP-0254043]  
 US11013498 19980706 [1998US-0110134]  
 US69563296 19960812 [1996US-0695632]  
**EC** - G02F-001/1362C  
 G02F-001/1362H  
**ICO** - S02F-001/1333I  
**PCL** - ORIGINAL (O) : 349042000; CROSS-REFERENCE (X) : 345092000  
 349043000 349138000 349187000  
**DT** - Corresponding document  
**UP** - 2001-14

17 / 18 PLUSPAT - ©QUESTEL-ORBIT - image  
**PN** - US6052162 A 20000418 [US6052162]  
**STG** - (A) United States patent  
**TI** - (A) Transmission type liquid crystal display device with connecting electrode and pixel electrode connected via contact hole through interlayer insulating film and method for fabricating  
**PA** - (A) SHARP KK (JP)  
**PA0** - Sharp Kabushiki Kaisha, Osaka [JP]  
**IN** - (A) SHIMADA TAKAYUKI (JP); KAJITANI MASARU (JP); OKAMOTO MASAYA (JP); KONDO NAOFUMI (JP); KATAYAMA MIKIO (JP); SAKUHANA YOSHIKAZU (JP); YAMAMOTO AKIHIRO (JP); NAKATA YUKINOBU (JP); NISHIKI HIROHIKO (JP); SHIMADA YOSHINORI (JP)  
**IC** - (A) G02F-001/136 G02F-001/343  
**AP** - US69563296 19960812 [1996US-0695632]  
**PR** - JP20636795 19950811 [1995JP-0206367]  
 JP25404395 19950929 [1995JP-0254043]

**EC** - G02F-001/1362H  
**ICO** - S02F-001/1333I  
**PCL** - ORIGINAL (O) : 349038000; CROSS-REFERENCE (X) : 349039000  
 349043000 349044000  
**DT** - Corresponding document  
**UP** - 2000-17

*18 / 18 PLUSPAT - ©QUESTEL-ORBIT - image*  
**PN** - US2001002857 A1 20010607 [US20010002857]  
**STG** - (A1) Utility Patent Application published on or after January 2, 2001  
**TI** - (A1) Transmission type liquid crystal display having an organic interlayer elements film between pixel electrodes and switching  
**PA** - (B2) SHARP KK (JP)  
**PA0** - Sharp Kabushiki Kaisha, Osaka [JP]  
**IN** - (A1) KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)  
**IC** - (A1) G02F-001/1343 G02F-001/136  
**PN2** - US6433851 B2 20020813 [US6433851]  
**STG2** - (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001  
**TI2** - (B2) Transmission type liquid crystal display having a transparent colorless organic interlayer insulating film between pixel electrodes and switching  
**PA2** - (B2) SHARP KK (JP)  
**IN2** - (B2) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)  
**IC2** - (B2) G02F-001/136 G02F-001/333  
**AP** - US75747701 20010111 [2001US-0757477]  
**PR** - US75747701 20010111 [2001US-0757477]  
 JP20636795 19950811 [1995JP-0206367]  
 JP25404395 19950929 [1995JP-0254043]  
 US59285700 20000612 [2000US-0592857]  
 US11013498 19980706 [1998US-0110134]  
 US69563296 19960812 [1996US-0695632]  
**EC** - G02F-001/1362C  
 G02F-001/1362H  
**ICO** - S02F-001/1333I  
**PCL** - ORIGINAL (O) : 349138000; CROSS-REFERENCE (X) : 349042000  
**DT** - Corresponding document  
**UP** - 2001-24

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**PN** - US2001002857 A1 20010607 [US20010002857]US6433851 B2 20020813  
 [US6433851]  
**AP** - US75747701 20010111 [2001US-0757477]  
**ACTE** - 20021217 US/CC-A  
 CERTIFICATE OF CORRECTION  
 20040928 US/RF-A  
 REISSUE APPLICATION FILED  
 EFFECTIVE DATE: 20040204  
**UP** - 2004-41


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#### Syntax Definition

and and

or or

w/N within N words

not w/N not within N words

pre /N precedes by N words

w/p in same paragraph

not w/p not in same paragraph

w/seg in same segment

not w/seg not in same segment

w/s in same sentence

not w/s not in same sentence

and not and not

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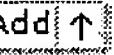
#### Syntax Definition

and	and
or	or
w/N	within N words
not w/N	not within N words
pre /N	precedes by N words
w/p	in same paragraph
not w/p	not in same paragraph
w/seg	in same segment
not w/seg	not in same segment
w/s	in same sentence
not w/s	not in same sentence
and not	and not

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#### Syntax Definition

<u>and</u>	and
<u>or</u>	or
<u>w/N</u>	within N words
<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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